

What is claimed is:

1. A suction valve assembly of a reciprocating compressor comprising:

5 a valve supporting body inserted-fixed to a valve mounting portion formed at a piston and provided with at least one suction hole through which a fluid introduced into a suction passage of the piston is supplied to a compression chamber of a cylinder; and

10 a suction valve mounted at the valve supporting body to be rotatable within a certain range, for opening and closing the suction hole formed at the valve supporting body.

2. The suction valve assembly of claim 1, wherein the valve supporting body is formed as a disc shape, an outer circumferential surface thereof is fixed to the valve mounting portion, and the valve supporting body is provided with a pin hole for inserting a hinge pin so that the suction valve can be hinge-coupled.

3. The suction valve assembly of claim 2, wherein the valve supporting body is provided with at least one suction hole formed at one side on the basis of the pin hole, and is provided with a stopper formed at another side for preventing the suction valve from being opened more than a certain range by stopping the suction valve.

4. The suction valve assembly of claim 3, wherein the stopper is

formed to have a certain inclination surface of which height becomes lower towards an edge of the valve supporting body from a center thereof.

5        5.        The suction valve assembly of claim 2, wherein the suction valve has a disc shape, and is provided with a slot at a center thereof for inserting the hinge pin.

10       6.        The suction valve assembly of claim 5, wherein the slot has a certain distance that the hinge pin is sliding-moved so that the suction valve can be linearly-moved within a certain range.

15       7.        The suction valve assembly of claim 5, wherein the suction valve is provided with an open/close portion formed at one side on the basis of the pin hole for opening and closing the suction hole of the valve supporting body, and is provided with a stopping portion formed at another side and stopped by the stopper of the valve supporting body.

20       8.        The suction valve assembly of claim 7, wherein the open/close portion of the suction valve is formed to have a height higher than that of the stopping portion.

25       9.        The suction valve assembly of claim 5, wherein the valve mounting portion of the piston is provided with a valve seat portion at an upper inner circumferential surface thereof, to the valve seat portion an outer circumferential surface of the suction valve is hermetically adhered.

10. The suction valve assembly of claim 9, wherein the valve seat portion is formed as a curved surface form so that the suction valve can be rotated, and the outer circumferential surface of the suction valve is also formed as a curved surface form corresponding to the valve seat portion so that the suction  
5 valve can be slid by being adhered to a surface of the valve seat portion.